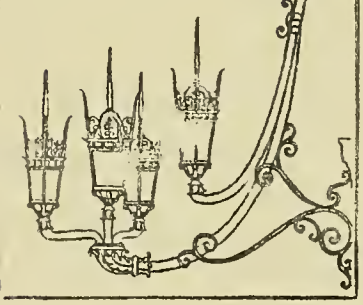
BOSTON PUBLIC LIBRARY
3 9999 06354 499 1

BOSTON
PUBLIC
LIBRARY



Digitized by the Internet Archive
in 2011 with funding from
Boston Public Library

http://www.archive.org/details/tuftsuniversityh00paye

GOVDOC
BRA
4078

Gov 92-1158
BOSTON PUBLIC LIBRARY

PAYETTE
ASSOCIATES
ARCHITECTS
PLANNERS

MASTERPLAN (Preliminary) 10 July 1989

TUFTS UNIVERSITY

HEALTH SCIENCE CAMPUS/BOSTON

Payette Associates Inc.
40 Isabella Street
Boston, MA 02116-5296

TABLE OF CONTENTS

1. EXECUTIVE SUMMARY

2. INTRODUCTION

3. STATEMENT OF PURPOSE

   A. Health Sciences
   B. The University Community
   C. The University, the Community, and the City

4. STATEMENT OF NEEDS

   A. Health Sciences
   B. The University Community
   C. The City

5. MASTER PLAN

6. TUFTS HEALTH SCIENCES PROGRAM; JUNE 30, 1989

GOVDOC
BRA
4078

Bind
Note Foldout

1. EXECUTIVE SUMMARY

1. EXECUTIVE SUMMARY

Education in the Health Sciences in the 1990's and beyond will place heavy demands on the resources and creativity of teaching institutions. For Tufts University's Health Sciences Campus to survive and be in the first rank of faculty, students, and service to society, it must take action on several fronts.

There must be even more integration among the components of the Health Sciences Campus. The Schools of Medicine, Dental Medicine, Veterinary Medicine, the Sackler School of Graduate Biomedical Sciences, and the Human Nutrition Research Center, under President Mayer's "one medicine" concept, must explore more joint research programs, bringing a multi-pronged attack to health science issues.

In addition, there need to be bases for innovative programs that unite basic science research, bio-engineering, and patient diagnosis and treatment around the major scientific areas of the coming decades, such as AIDS, cancer, neurosciences, and environmental medicine.

Basic Science research must grow by 491,000 gross square feet both to eliminate current deficiencies and to accommodate this anticipated growth in present and new programs. The parking lot north of Posner Hall is the only available site for this growth, contiguous to the present M&V Complex, but it cannot meet the entire need alone. The parcel designated R-1 on the South Cove Urban Renewal Plan, also contiguous to the M&V Complex, would provide enough additional capacity to meet the entire need.

Existing research facilities must also be substantially upgraded to remain viable. The "Infill" project--filling in the space on Tyler Street between the M&V building and the South Cove building addresses this need. It is a utilities and electro-mechanical systems retrofit necessary to prolong the life of the existing M&V Complex.

Support or ancillary services, necessary to the efficient, attractive operation of a Health Sciences campus, need to be improved and expanded. Housing for faculty, staff, and students, as well as daycare and athletic/fitness facilities, should be developed within the campus. Additional parking, while being unfeasible on the Posner and R-1 lots, needs to be developed in the vicinity.

Finally, the urban quality of the Health Sciences Campus itself, as well as the immediate surroundings, must be transformed from its present nondescript state to a district of attractive buildings in good repair, with clean, well-lit, well-paved, tree lined streets and walks. Ground floor uses should be public and loading dock areas should be screened from the pedestrian realm. Through traffic on Harrison Avenue and Tyler Street should be minimized and cross walks expanded. These improvements would acknowledge that Harrison Avenue is both the University's "High Street" from Kneeland Street to Oak Street, and is the Chinese community's main pedestrian thoroughfare between the business center of Chinatown and the burgeoning residential areas of the South End.

2. INTRODUCTION

2. INTRODUCTION

Tufts University Schools of Health Sciences moved to their present location in 1945, after acquiring a run-down manufacturing building located at 136 Harrison Avenue and converting it to lecture halls, laboratories, a library, and administrative space. The University subsequently acquired the attached buildings located in the block bounded by Kneeland, Harrison, Harvard, and Tyler Streets. The use of their additional space, along with 136 Harrison Avenue, served the needs of the University through the 1950's.

In the early 1960's, the schools of Health Sciences, faced with overcrowded facilities and a rapidly deteriorating neighborhood, investigated the possibility of leaving Boston and relocating to a suburban location; specifically the 250+ acre Woodland Country Club in Newton.

During this same period, the City of Boston and its Redevelopment Authority in a survey of the South Cove area determined that the neighborhood abutting the University and the New England Medical Center facilities was blighted, substandard, and in general, incapable of rehabilitation so that almost total renewal was required. As part of the South Cove Urban Renewal Plan, Tufts and New England Medical Center were designated developer of the 13-acre site bounded by Stuart-Kneeland, Tremont, Oak and Tyler Streets. The University and Medical Center abandoned their plans to relocate to Newton and jointly executed the 1965 Cooperation Agreement with the City of Boston and the Redevelopment Authority. Under the terms of this agreement, the Redevelopment Authority designated certain parcels of land for acquisition, demolition and disposition to Tufts/NEMC for institutional development.

It was on the basis of this 1965 Cooperation Agreement that plans went forward for the expansion and development of the University's Health Sciences Campus in Boston. In 1973 the new Dental School and the new 960-car Tremont Street parking garage were completed.

These new structures, along with the 57 Hotel/Restaurant/Movie Theatre/Parking Complex, the City of Boston's Quincy Community School, and a number of new housing developments, dramatically and positively changed the character and face of the South Cove area in the 1970's.

The establishment of the School of Veterinary Medicine in 1978-79 brought another key element to the One Medicine concept of President Jean Mayer. Because of space constraints, only Basic Sciences and necessary offices were established at on the Boston Campus. The remainder of the Veterinary Medicine programs are located on University property in Grafton and elsewhere.

The creation in 1980-81 of the Sackler School of Graduate Bio-Medical Sciences added a third important element to the "one medicine" concept. This was followed in 1982 by the completion of the Human Nutrition Research Center, a joint project undertaken with the U.S. Department of Agriculture.

Finally, with the completion of the Sackler Building in 1986, the Health Science departments have been united through the addition of a first class library facility to the campus.

After their modest beginnings at 136 Harrison Avenue, the schools of Health Sciences, with carefully considered expansion, have managed to survive, remain competitive, and have been able to attract the faculty and students needed for the highest caliber training in Medicine.

3. STATEMENT OF PURPOSE

3. STATEMENT OF PURPOSE

The purpose of this plan is to develop a framework for the development of the Health Sciences Campus which will identify the needs of the University, the Community, and the City and establish guidelines for institutional development which will lead to informed actions. The plan addresses the following categories:

A. Health Sciences

- What are the physical deficiencies in present programs?
- What growth is foreseen in present programs?
- What future programs, if any, are envisioned?

B. University Community

- What activities and facilities are needed to support the life of the University community?
- What social spaces are needed for formal and informal gatherings?
- What recreation facilities are needed?
- What are the housing requirements for students, faculty and staff?
- What are the parking requirements?
- What is the need for commercial space?
- What is the need for day care?

C. The University, the Community, and the City

- What relationship should be established between the University, the Community, and the City?
- How can the needs of the University, the Community, and the City, particularly in the area of affordable housing, be satisfied?

4. STATEMENT OF NEEDS

4. STATEMENT OF NEEDS

The following is a brief background and statement of needs. A detailed breakdown of the actual space program is included in the Appendix.

A. Health Sciences

The enrollment of the Dental, Medical, and Veterinary Schools is not expected to increase over the next five years, but growth in research and the Sackler Graduate School will be significant. In existing programs there are deficiencies of approximately 200,000 gross s.f.. In addition there is a projected need for 300,000 gross s.f. to accommodate growth of existing programs.

These needs must be met on the Health Sciences Campus, since education in the health sciences is an interweaving of three strands:

1. Classroom/Library activity - the familiar lectures, seminars, demonstrations, and reading, augmented now by computers and television.

2. Patient care - the clinical practice of seeing patients.

3. Scientific research - basic biomedical research, clinical research, bio-engineering research, etc.

The majority of faculty are involved in all three strands each day, as are the students. The intellectual linkages among these strands, as well as the physical propinquity that maximizes face-to-face encounters, is central to Tufts University's educational mission.

B. The University Community

Much in common with the surrounding neighborhoods of Chinatown, the South End, and Bay Village, the Tufts community has critical needs for basic facilities that would make it a better place to live and work.

1. Recreation

   Present facilities (the weight room and pool table in the basement of Posner Hall) are grossly inadequate. Students, faculty and staff have made use of neighboring facilities such as the YMCA on Tyler Street, the Quincy School, and the gym and pool at Don Bosco. An athletic/fitness center is proposed on campus to augment these community facilities.

2. Housing

The only housing presently available on campus is Posner Hall, containing 98 single rooms, which does not adequately service our community. There is a need for affordable housing for married and single students, junior faculty, staff and researchers, on or in close proximity to the campus.

3. Parking

The University owns and has use of 143 parking spaces. In addition, it has access to 1,592 spaces controlled by Tufts New England Medical Center.

Spaces lost due to construction on existing surface lots and spaces for the proposed increase in graduate students and staff/faculty must be constructed in the area.

5. Commercial Space

When more housing is developed, there will be a need for more restaurants, cafes, food stores, shops and services.

6. Day Care

No dedicated day care facilities for the Health Sciences Community exists in the area. A 36 slot facility is proposed as part of any new development.

C. **Community**

The current, temporary YMCA facility on the R-1 lot should be replaced with a permanent facility incorporated into one of the proposed developments in the South Cove/Chinatown area.

C. The City

The Health Sciences Campus is very much a part of the urban fabric. It is not an isolated precinct walled off from its surroundings. The urban fabric in this part of the city is badly worn and has been for some time. The University desires to work with the surrounding neighborhoods and the City in improving the district.

1. Street Scape

The University needs to establish its identity in the area. "Gateways" on Kneeland St. at Washington St. and Harrison Avenue would receive the majority of people who come to the University by auto or public transit. Harrison Avenue is the "High Street" of University activity, just as Mass Avenue in Cambridge functions for Harvard & M.I.T.. Paving, lighting, planting, and signage should be employed as a means of wedding the University and the City.

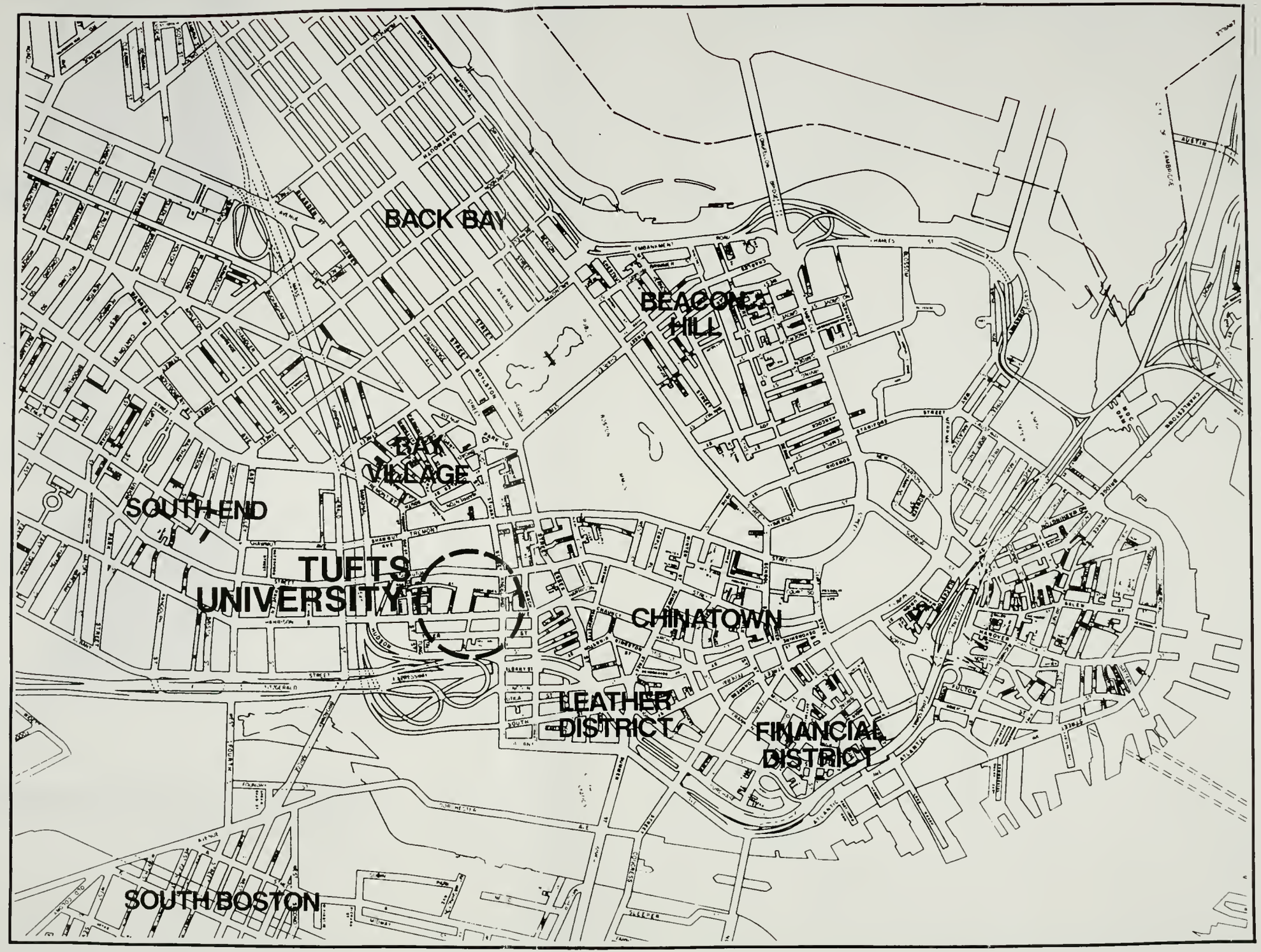
2. New Development

Redevelopment planned by the Chinese community and the BRA in areas surrounding the University, such as Hudson St., Marginal Road, Washington St. and Oak St. will improve the area for everyone and could meet some of the University's needs for commercial services, housing, and recreation.

3. Traffic

The construction required to provide access to and from the third harbor tunnel creates the opportunity for reassessing traffic flows, parking, and development on Hudson St., Marginal Road, Herald St., and over the Mass Turnpike extension. The University's concerns are to reduce vehicular traffic on Harrison Avenue and to have access to parking on the periphery of the campus.

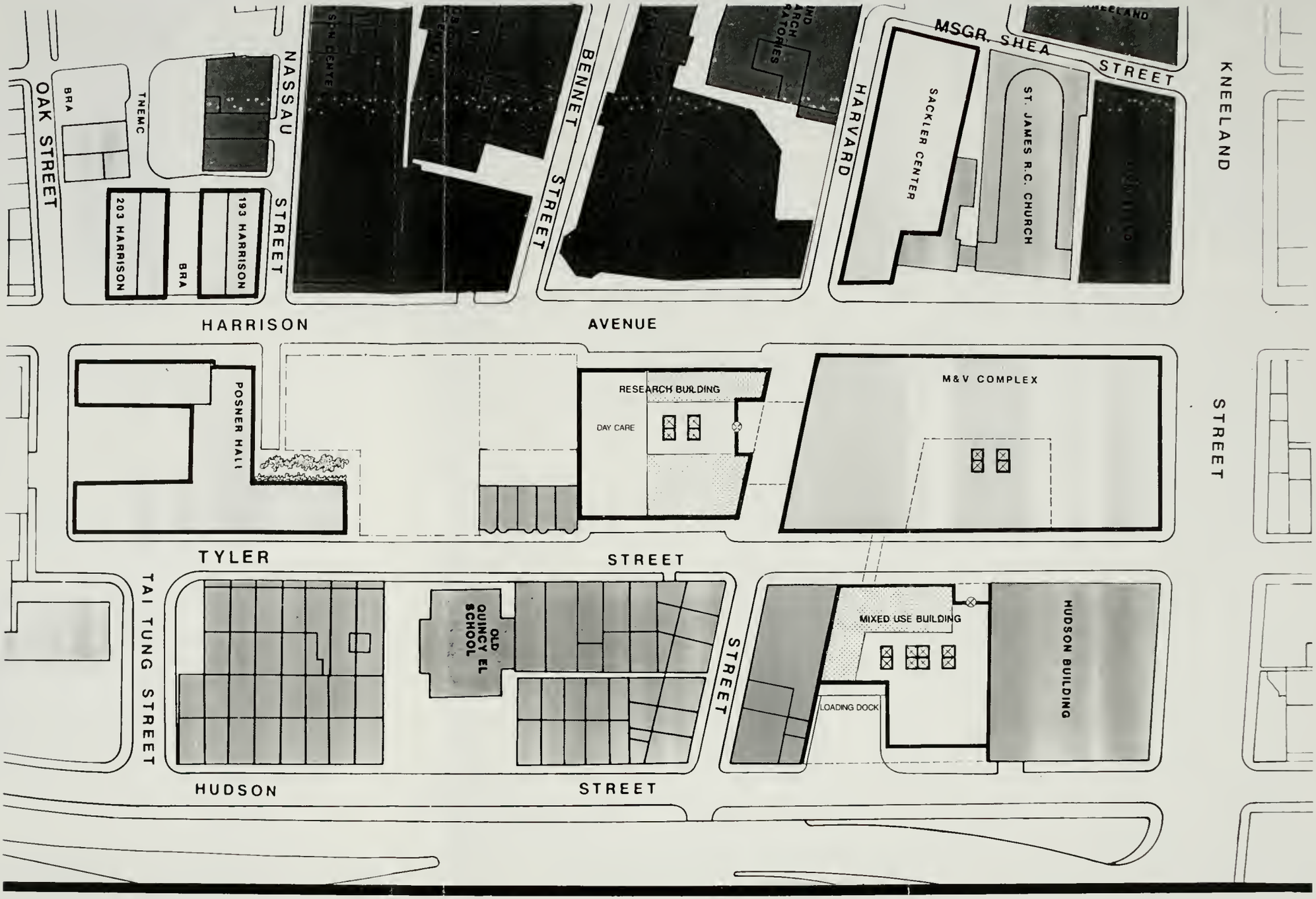
5. MASTER PLAN



TUFTS UNIVERSITY
HEALTH SCIENCE
CAMPUS
MASTER PLAN
BOSTON

Location Plan

Payette Associates Inc.
Architect Planners



TUFTS UNIVERSITY Health Science Campus

5 Year Plan Program Accommodation Studies

Payette Associates Architects Planners

GROUND FLOOR

July 10, 1989

NEMC (EXISTING)

COMMUNITY (EXISTING)

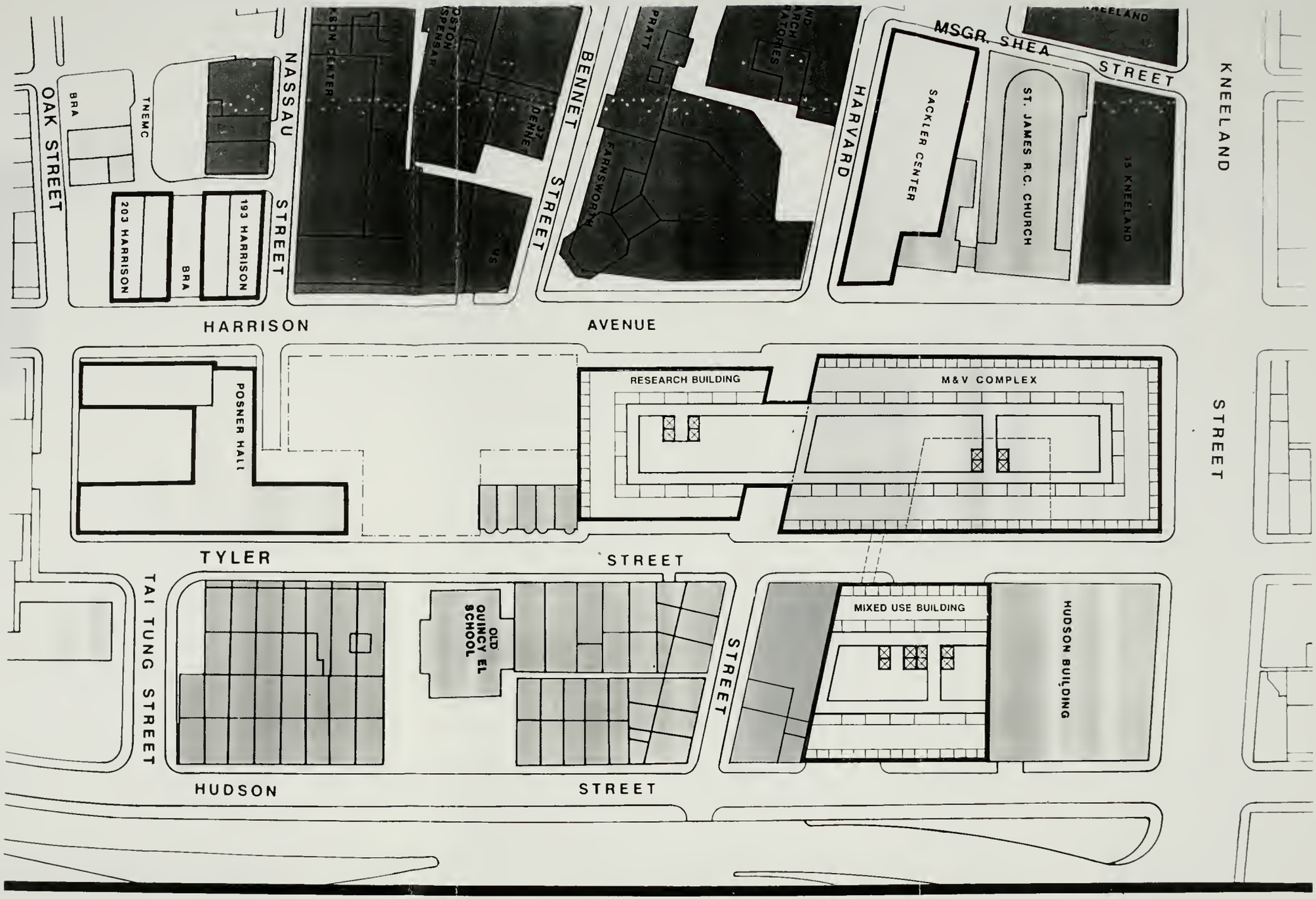
PEDESTRIAN ROUTE TO M.B.T.A. ORANGE LINE

TUFTS UNIV. (EXISTING)

COMMUNITY COMMERCIAL (PROPOSED)

COMMUNITY (PROPOSED)

TUFTS UNIV. (PROPOSED)



TUFTS UNIVERSITY Health Science Campus

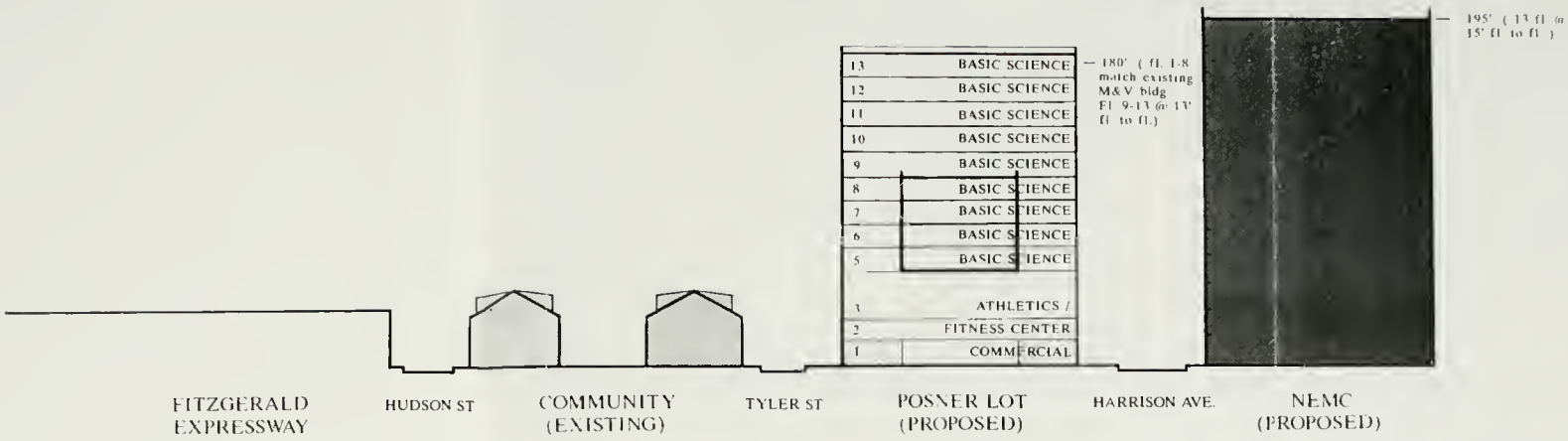
5 Year Plan Program Accommodation Studies

Payette Associates Architects Planners

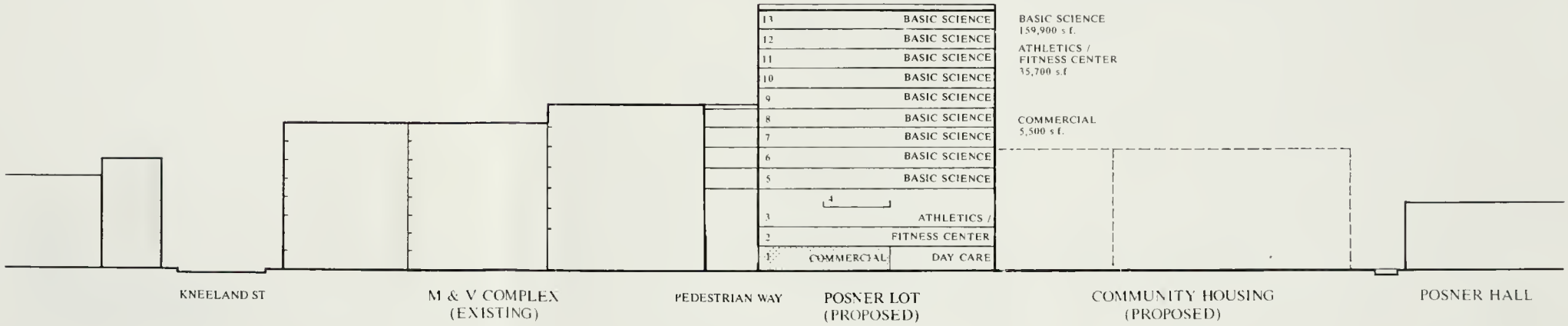
TYPICAL FLOOR PLAN

July 10, 1989

N.E.M.C. (EXISTING) | COMMUNITY (EXISTING) | TUFTS UNIV. (EXISTING) | COMMUNITY (PROPOSED) | TUFTS UNIV. (PROPOSED)



LOOKING SOUTH



LOOKING EAST

TUFTS UNIVERSITY Health Science Campus

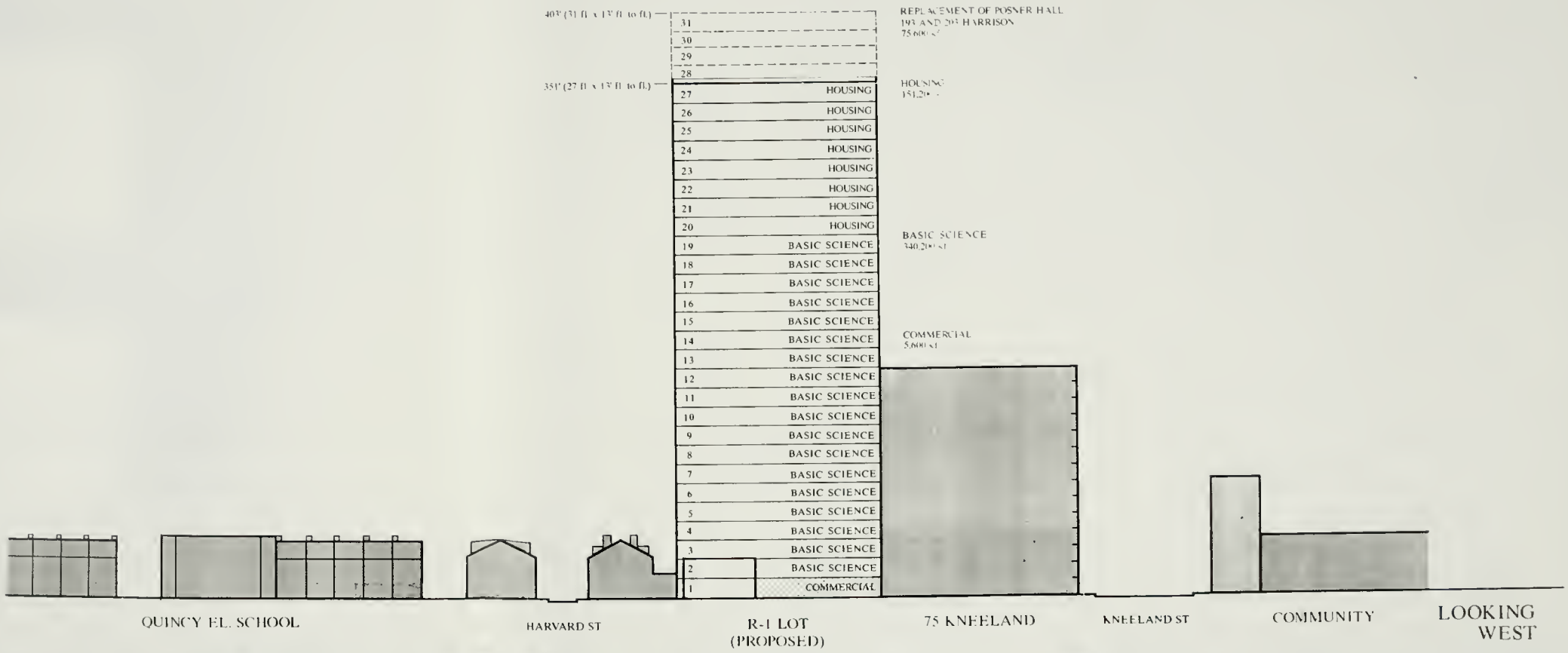
5 Year Plan Program Accommodation Studies

Payette Associates Architects Planners

POSNER LOT SECTIONS

July 10, 1989

NEMC (EXISTING) | COMMUNITY (EXISTING) | TUFTS UNIV (EXISTING) | COMMUNITY COMMERCIAL (PROPOSED) | COMMUNITY (PROPOSED) | TUFTS UNIV. (PROPOSED)



TUFTS UNIVERSITY Health Science Campus

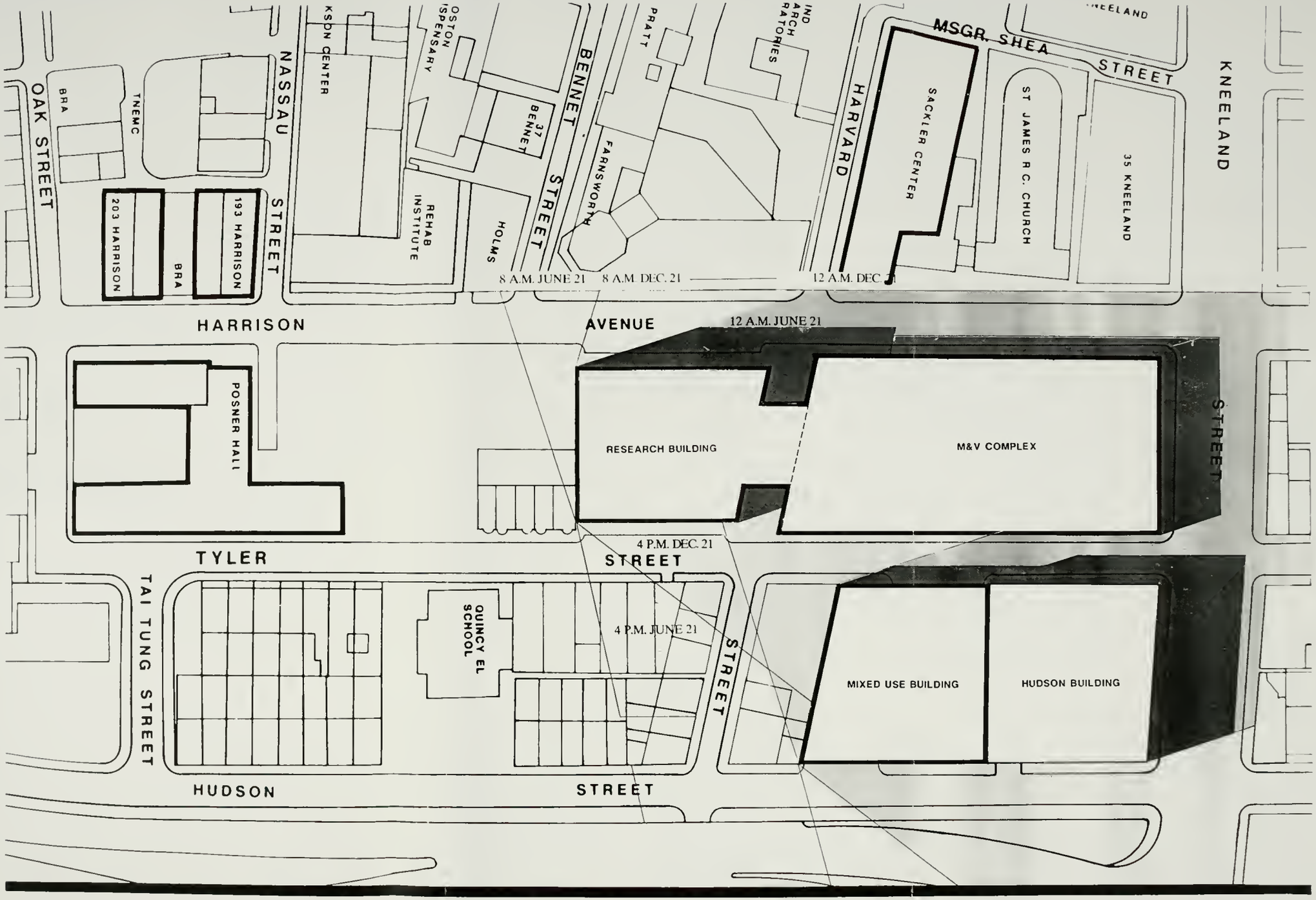
5 Year Plan Program Accommodation Studies

Payette Associates Architects Planners

R-1 LOT SECTION

July 10, 1989

N.E.M.C. (EXISTING) | COMMUNITY (EXISTING) | TUFTS UNIV. (EXISTING) | COMMUNITY (PROPOSED) | TUFTS UNIV. (PROPOSED)



TUFTS UNIVERSITY Health Science Campus

5 Year Plan Program Accommodation Studies

Payette Associates Architects Planners

SUN STUDY

July 10, 1989

6. APPENDIX

HEALTH SCIENCES PROGRAM; 30 JUNE 1989

THE SPACE PROGRAM FOR THE TUFTS HEALTH SCIENCES CAMPUS IN BOSTON

PREPARED BY: ANTHONY BLACKETT, CONSULTANT ARCHITECT / PLANNER

JUNE 30, 1989

INTRODUCTION AND SUMMARY

The attached Programs represent the space needed by all the Health Sciences Schools - Medicine, Dental, Veterinary - currently located in downtown Boston. Two separate programs are shown:

1) Space needed at current departmental strength (i.e. existing shortfall in space).

2) Space needed at proposed departmental strength.

Both programs are space needed *over and above* space in the existing downtown facilities.

The grand total of space needed if departments are brought up to proposed strengths together with necessary support and housing facilities, are:

	Gross Square Feet
Research	491,000
Athletics / Fitness Center	38,130
Day Care Center	4,320
	533,450
Housing	141,000
GRAND TOTAL FOR HEALTH SCIENCES	674,450

If Posner Hall, 193 Harrison Avenue and 203 Harrison Avenue are relinquished by the University, the space in these buildings would have to be replaced by new construction in the area:

Posner Hall	62,400
193 Harrison Avenue	5,600
203 Harrison Avenue	4,100
TOTAL OF REPLACEMENT AREA	*72,000*

Since only a small proportion (26% of the faculty/staff and 4% of the students) currently use the off-street parking facilities, the proportional increase in parking for the proposed expansion translates into 66 spaces. The demand, however is limited by the supply, and more analysis is necessary before a true need is determined.

In addition, the 193 parking spaces currently on the Posner Hall lot would have to be replaced as this site is developed. Thus, the *absolute minimum* new parking spaces needed is *260*.

METHODOLOGY AND ASSUMPTIONS

Figures on the current and proposed staffing of departments were supplied by Joseph Byrne, Associate Provost for the Health Sciences. The current staffing is from existing records. The proposed staffing was established in consultation with the respective department heads; the proposed staffing also accords with the planning policies of the respective schools. The principles used to generate the proposed staffing revolved around questions such as: 'What is the optimum size for your particular department to carry out a full scale research effort in your discipline?; 'How does the size of your department compare with those in similar institutions?; 'What particular sub-disciplines are missing for a well-rounded department', etc.

The detailed 'spread sheet' space programs were then generated from the staffing figures by the application of standard areas occupied by each category of staff. The standards are indicated on the spread sheets. The laboratory, laboratory support and animal housing standards are those used by the National Institute of Health (N.I.H.). These standards allow for a first class research facility. In addition to the full-time laboratory staff, allowance is also made for graduate student desk and bench space.

An inventory of existing space has also been prepared from the current Tufts INSITE data. The inventory also shows as a separate item, current space that is rented. This inventory is included in the Appendix of this report. By comparing the existing space with the space needs generated by the standards at current departmental strengths, the existing shortfall can be determined, and with the needs at proposed strengths, the ultimate additional space need can be established.

The detailed assumptions and data sources are outlined in the following sections.

RESEARCH DEPARTMENTS

The staffing figures provided by th Associate Provost for research departments are shown on the following tables:

'Wet' Laboratory Departments (Standard 'Biological Level 2' wet laboratories)

Department	Faculty		Graduate Students		Post-docs/ Fellows		Research Support		Administrative Support	
	Current	Prop.	Current	Prop.	Current	Prop.	Current	Prop.	Current	Prop.
Anatomy/ Cell Biology	20	29	12	17	19	28	15	22	12	13
Biochemistry	13	20	26	38	7	15	12	20	3	4
Microbiology	12	15	28	41	35	35	19	24	7	7
Pathology	19	29	34	49	15	20	59	70	5	6
Pharmacology	3	15	3	4	4	12	9	25	3	4
Physiology	15	22	24	35	33	40	13	25	5	5
Neuroscience	4	8	6	9	5	10	10	20	1	3
Anesthesiology	2	3	0	0	1	2	1	3	1	1
Community Health	6	8	0	0	0	2	13	15	4	4
Medicine	*2	9	0	0	0	8	*7	18	*1	3
Obstetrics/ Gynecology	4	6	0	0	0	2	2	10	0	1
Opthalmology	3	6	0	0	1	3	4	10	1	2
Orthopedics	1	2	0	0	1	2	2	4	1	1
Otolaryngology	3	3	0	0	2	2	0	2	0	1
Psychiatry	5	8	0	0	1	4	5	8	1	2
Surgery	*1	4	0	0	0	2	*1	10	*1	1
Unassigned	0	0	5	7	0	0	0	0	0	0
TOTALS	*113*	*187*	*138*	*200*	*123*	*187*	*170*	*286*	*45*	*58*
Dental Research	8	15	0	0	1	10	4	25	1	5
Vet. Research	3	3	0	0	3	3	4	6	1	1
TOTALS	*11*	*18*	*0*	*0*	*4*	*13*	*8*	*31*	*2*	*6*

* Currently located in off-site rented space.

9 4
30

9 3
4 9

'Dry' Laboratory Departments (Workshop Bench' type laboratories)

Department	Faculty		Graduate Students		Post-docs/ Fellows		Research Support		Administrative Support	
	Current	Prop.	Current	Prop.	Current	Prop.	Current	Prop.	Current	Prop.
Rehab. Medicine	*6	8	0	0	0	4	*6	12	*2	2
Clin. Neurology**	3	3	0	0	0	0	3	3	1	1
TOTALS	*9*	*11*	*0*	*0*	*0*	*4*	*9*	*15*	*3*	*3*

'Data' Laboratory Departments ('Computer Terminal and Peripherals' type laboratory)

Drug Development	9	9	0	0	0	0	0	0	3	3
Commun.Health	*14	14	0	0	0	2	*3	5	*2	3
University Prof.	1	1	0	0	1	1	1	1	1	1
Med. Informatics	4	4	0	0	0	2	0	4	1	1
Med. (Cancer)	*2	2	0	0	0	0	0	0	*2	2
TOTALS	*30*	*30*	*0*	*0*	*1*	*5*	*4*	*10*	*9*	*10*

* Currently located in off-site rented space.
** 20% of proposed laboratory space will be 'wet'.

ADMINISTRATIVE DEPARTMENTS

The remaining Health Sciences Departments are administrative:

Medical Dean	No increases proposed.
University President	No increases proposed.
Associate Provost	One professional and one administrative staff increase proposed.
Sackler Dean	No increases proposed.

ENROLLMENTS

Except for the Sackler School the planning assumption is that enrollments will remain at their current level. Thus no increase in teaching, student support and library space is anticipated.

As reflected in the above tables, the Sackler School is anticipated to increase from its current enrollment of 138 graduate students to 200. This is necessary, in part, to support the proposed increase in research activity.

OPERATIONAL AND FINANCIAL SERVICES SUPPORT

These include: Buildings and Grounds, Physical Plant, Security, Purchasing and Property Management. The proportional increase in these services as the Health Science departments grow is factored into the net to gross ratios in the program tables. The ratio used is the N.I.H. standard of 2 (i.e. the net or useable space is doubled to give the actual total area of any new building). This ratio is high and should readily accommodate space for these services. A more accurate assessment would require an evaluation of the staffing of each of these services and how they would grow in proportion to increase in operations and total floor areas.

LABORATORY SUPPORT AND ANIMALS

All laboratory support is factored into the program tables. The only additional needs could be a central solvent storage facility and a central incineration facility. Again the generous net to gross ratio of 2 could accommodate these facilities if they are of a relatively modest size. If major facilities are planned, they would have to be programmed separately.

The present animal facility is new and has some 20% spare capacity for current research needs. An expansion is assumed in direct proportion to the increase in research space which should be more than adequate given the existing surplus.

FITNESS CENTER AND DAY CARE

If the R-1 lot is developed by Tufts, one option would be to incorporate the South Cove Branch of the Greater Boston YMCA in the base of any proposed development. This would replace the existing temporary structure on the site and satisfy the requirement for active community uses on grade level street frontages. The YMCA have generated a preliminary replacement program for the facility:

Gymnasium	7,200
Women's Locker Complex	1,000
Men's Locker Complex	1,000

Large Exercise/Nautilus Room	1,500
3# Medium Exercise Rooms	3,000
Multi-use and Aerobics	3,600
4# Squash Courts	4,000
Administration and Storage	1,720
Drop-in Child Care	2,400

GRAND TOTAL FOR ATHLETICS / FITNESS CENTER 25,420

Using a net to gross ratio of 1.5, the total facility would be 38,130 gross square feet.

Swimming facilities are available and accessible in the downtown neighborhood and so the construction of these expensive facilities would be a luxury.

DAYCARE

Current practice in day care operations is to begin or expand day care units in modules of 36 slots. This is determined by the minimum practical class size necessary to run a full service day care for infants to kindergarten. The minimum operation is proposed since at the downtown campus day care would be a new service and the actual demand will not be known until applications are received. If demand should prove to be high, space should be considered for doubling the size of the operation.

36 Slots @ 80 nsf / slot	2,880

Using a net to gross ratio of 1.5, the total facility would be 4,320 gross square feet.

HOUSING

It is the common consensus that a minimum of 200 additional student housing beds would be filled without any difficulty and so this number of beds are proposed in the program for current needs.

It has been proposed that a total of 400 additional beds represents the actual demand. This figure could only be verified by constructing a first phase of 200 beds and subsequently ascertaining whether there is an additional demand, and/or carrying out a detailed survey of student needs. Until such a survey is executed the 400 additional beds are included on a provisional basis in the program for the Health Sciences at their ultimate strength. The figure is probably not unrealistic given the proposed growth and the assumption that post-docs and Sackler School graduates are included in the demand for the housing.

PARKING

Parking needs can be established by pro-rating the existing staff/faculty and student parking needs to that of the program expansion:

Faculty and Staff

1. Current faculty and staff	1,336
2. Increase in faculty and staff	346
3. Percentage of Increase to Current (line 1 / line 2)	26%
4. Current daily demand of spaces	230
5. Additional spaces required (line 3 x line 4)	60

Sources: Line 1 - Tufts University Fact Book.
Line 2 - Personnel tables in 'Methodology and Assumptions' section above plus pro-rated increase of 13 for Animal Care Facility.
Line 4 - 105 reserved parking plus 125 of 'stickers' issued that park every day.

Students

1. Current enrollment	1,434
2. Increase in enrollment (Sackler School only)	62
3. Percentage of increase (line 1 / line 2)	4%
4.Current daily demand for spaces	140
5. Additional demand for spaces (line 3 x line 4)	6

Sources: Line 1 - Tufts University Fact Book (576 Dental, 606 Medical, 138 Sackler, and 114 Veterinary - 50% only).
Line 4 - 140 of 'stickers' issued that park every day.

Total Additional Parking Demand

The total additional demand for faculty/staff and students would then be *66 spaces*. This assumes that the current supply to demand ratio is adequate. This may not be the case and should be further investigated before any final number is determined.

THE PROGRAM

SUMMARY OF SPACE NEEDS

SPACE TYPE		Existing Space	Space Needs at Current Strength	Current less Existing (Shortfall)	Space Needs at Proposed Strength	Proposed less Existing (Total New Space Needs)
ACADEMIC/RESEARCH						
WET	Med.	122969	209790	86821	334153	211184
	Dent.'	3832	5410	1578	22725	18893
	Vet.*	4154	4340	186	5160	1006
DRY	Med.	0	6053	6053	7483	7483
DATA	Med.	1043	6380	5337	7750	6707
ANIMALS**		5045	4700	-345	7855	2810
NET TOTALS		*137043*	*236673*	*99630*	*385126*	*248083*
GROSS S.F.***		**246677**	473346	*199260*	770252	**496166**

*Research space only + new research faculty and support staff for 'Dental proposed'.
**Current and proposed based on N.I.H. standards of 235 nsf animal care staff (20 current staff)
***Existing: net x 1.8 (existing ratio); Current and Proposed Need: net x 2.0 (N.I.H. standard)

STAFF & STUDENT SUPPORT					
DAYCARE*	0	0	0	2880	2880
HEALTH FACILITY**	0	0	0	25420	25420
NET TOTALS	*0*	*0*	*0*	*28300*	*28300*
GROSS S.F.***	**0**	0	0	42450	**42450**

*36 slots (one minimum full service module) @ 80 s.f./slot
**basketball court, squash courts, aerobics and noutilus rooms, lockers, storage, etc.; for detailed program, see text of report
***net x 1.5

ACADEMIC/RESEARCH + STAFF & STUDENT SUPPORT					
GROSS S.F.	**246677**	473346	199260	812702	***538616***

HOUSING					
NET S.F.*	21767	60000	38233	120000	98233
GROSS S.F.**	**39181**	90000	50819	180000	***140819***

*Existing: 97 beds (224 s.f./bed); Current needs: 200 apt. beds (300 s.f./bed); Proposed needs: 400 apt. beds
**Existing: net x 1.8 (existing ratio); Current and Proposed Need: net x 1.5

DETAILED SPACE NEEDS AT CURRENT DEPARTMENTAL STRENGTH														
A	B	C	D	E	F	G	H	I	J	K	L			
DEPARTMENT	FACULTY		POST-DOC/FELL.		ADMIN. STAFF		TOTAL OFF.	LAB. STAFF	GRAD. STUD.	TOTAL LAB.	LABS.	SUPPORT	TOTALS	RESEARCH
	#	AREA	#	AREA	#	AREA	AREA	#	#	#FULL TIME	AREA	AREA		TOTAL ONLY
		(B*135+60)		(D*80)		(F*120)	(C+E+G)			(B+D+I)	(J*80+K*175)	(K*235-wet)		(E+L+M)
WET LABS.												K*40-other)		
Anatomy	20	2760	19	1520	12	1440	5720	15	12	54	10410	12690	28820	
Biochemistry	13	1815	7	560	3	360	2735	12	26	32	7680	7520	17935	
Microbiology	12	1680	35	2800	7	840	5320	19	28	66	13790	15510	34620	
Pathology	19	2625	15	1200	5	600	4425	59	34	93	18995	21855	45275	
Pharmacology	3	465	4	320	3	360	1145	9	3	16	3040	3760	7945	
Physiology	15	2085	33	2640	5	600	5325	13	24	61	12595	14335	32255	
Neuroscience	4	600	5	400	1	120	1120	10	6	19	3805	4465	9390	
Anesthesiology	2	330	1	80	1	120	530	1	0	4	700	940	2170	
Commun. Hlth.	6	870	0	0	4	480	1350	13	0	19	3325	4465	9140	
Medicine	2	330	0	0	1	120	450	7	0	9	1575	2115	4140	
Obst./Gyn.	4	600	0	0	0	0	600	2	0	6	1050	1410	3060	
Opthalmology	3	465	1	80	1	120	665	4	0	8	1400	1880	3945	
Orthopedics	1	195	1	80	1	120	395	2	0	4	700	940	2035	
Otolaryngology	3	465	2	160	0	0	625	0	0	5	875	1175	2675	
Psychiatry	5	735	1	80	1	120	935	5	0	11	1925	2585	5445	
Surgery	1	0	0	0	1	120	120	1	0	2	350	470	940	
TOTAL	*113*	*16020*	*124*	*9920*	*46*	*5520*	*31460*	*172*	*133*	*409*	*82215*	*96115*	*209790*	
Dental Res.	8	1140	1	80	1	120	1340	4	0	13	2275	3055	6670	5410
Vet. Res.	3	465	3	240	1	120	825	4	0	10	1750	2350	4925	4340
TOTAL	*11*	*1605*	*4*	*320*	*2*	*240*	*2165*	*8*	*0*	*23*	*4025*	*5405*	*11595*	*9750*
DRY LABS														
Rehab. Med.	6	870	0	0	2	240	1110	6	0	12	2100	480	3690	
Cl. Neurology*	3	465	0	0	1	120	585	4	0	7	1225	553	2363	
TOTAL	*9*	*1335*	*0*	*0*	*3*	*360*	*1695*	*10*	*0*	*19*	*3325*	*1033*	*6053*	
	*Includes 20% 'wet' labs. which are factored into 'support' space.													
'DATA' LABS.														
Drug Dev.	9	1275	0	0	3	360	1635	0	0	9	0	360	1995	
Comm. Health	14	1950	0	0	2	240	2190	3	0	17	0	680	2870	
Univ. Prof.	1	195	1	80	1	120	395	1	0	3	0	120	515	
Med. Inform.	4	600	1	80	1	120	800	0	0	5	0	200	1000	
Med. (Canc.)	2	330	0	0	2	240	570	0	0	2	0	80	650	
TOTAL	*30*	*4350*	*2*	*160*	*9*	*1080*	*5590*	*4*	*0*	*36*	*0*	*1360*	*6380*	
		STANDARDS		Faculty/Professional Staff (Col. C): Office - 120 and Conference - 15 (i.e. total of 135); Addition for Chair's office - 60										
				Post-Doc./Fellow (Col.E): Shared Office - 80/post-doc. or fellow										
				Admin. staff (Col. G): -120										
		* as per N.I.H.		Laboratories (Col. L): Full-time worker - 175*; Graduate student - 80										
		standards		Laboratory Support (Col. M): Wet - 235/full-time worker*; Dry - 20/full-time worker										

DETAILED SPACE NEEDS AT PROPOSED DEPARTMENTAL STRENGTH

DEPARTMENT	FACULTY/PROF. S.		POST-DOC/FELL.		ADMIN. STAFF		TOTAL OFF.	LAB. STAFF	GRAD. STUD.	TOTAL LAB.	LABS	SUPPORT	TOTALS	RESEARCH
	#	AREA	#	AREA	#	AREA	AREA	#	#	*FULL TIME	AREA	AREA		TOTAL ONLY
		(B*135+60)		(D*80)		(F*120)	(C+E+G)			(B+D+I)	(J*80+K*175)	(K*235-wet)		(E+L+M)**
WET LABS.												K*20-other)		
Anatomy	29	3975	28	2240	13	1560	7775	22	17	79	15217	18565	41557	
Biochemistry	20	2760	15	1200	4	480	4440	20	38	55	12641	12925	30006	
Microbiology	15	2085	35	2800	7	840	5725	24	41	74	16198	17390	39313	
Pathology	29	3975	20	1600	6	720	6295	70	49	119	24769	27965	59029	
Pharmacology	15	2085	12	960	4	480	3525	25	4	52	9448	12220	25193	
Physiology	22	3030	40	3200	5	600	6830	25	35	87	18009	20445	45284	
Neuroscience	8	1140	10	800	3	360	2300	20	9	38	7346	8930	18576	
Anesthesiology	3	465	2	160	1	120	745	3	0	8	1400	1880	4025	
Commun. Hlth.	8	1140	2	160	4	480	1780	15	0	25	4375	5875	12030	
Medicine	9	1275	8	640	3	360	2275	18	0	35	6125	8225	16625	
Obst./Gyn.	6	870	2	160	1	120	1150	10	0	18	3150	4230	8530	
Opthalmology	6	870	3	240	2	240	1350	10	0	19	3325	4465	9140	
Orthopedics	2	330	2	160	1	120	610	4	0	8	1400	1880	3890	
Otolaryngology	3	465	2	160	1	120	745	2	0	7	1225	1645	3615	
Psychiatry	8	1140	4	320	2	240	1700	8	0	20	3500	4700	9900	
Surgery	4	600	2	160	1	120	880	10	0	16	2800	3760	7440	
TOTAL	*187*	*26205*	*187*	*14960*	*58*	*6960*	*48125*	*286*	*193*	*660*	*130928*	*155100*	*334153*	
Dental Res.	15	1800	10	800	5	600	3200	25	0	50	8750	11750	23700	22725
Vet. Res.	3	360	3	240	1	120	720	6	0	12	2100	2820	5640	5160
TOTAL	*18*	*2160*	*13*	*1040*	*6*	*720*	*3920*	*31*	*0*	*62*	*10850*	*14570*	*29340*	*27885*
DRY LABS														
Rehab. Med.	8	960	4	320	4	480	1760	12	0	24	2400	960	5120	
Cl. Neurology	3	465	0	0	1	120	585	4	0	7	1225	553	2363	
TOTAL	*11*	*1425*	*4*	*320*	*5*	*600*	*2345*	*16*	*0*	*31*	*3625*	*1513*	*7483*	
	*Includes 20% 'wet' labs. which are factored into 'support' space.													
'DATA' LABS.														
Drug Dev.	9	1275	0	0	3	360	1635	0	0	9	0	360	1995	
Comm. Health	14	1950	2	160	3	360	2470	5	0	21	0	840	3310	
Univ. Prof.	1	195	1	80	1	120	395	1	0	3	0	120	515	
Med. Inform.	4	600	2	160	1	120	880	4	0	10	0	400	1280	
Med. (Canc.)	2	330	0	0	2	240	570	0	0	2	0	80	650	
TOTAL	*30*	*4350*	*5*	*400*	*10*	*1200*	*5950*	*10*	*0*	*45*	*0*	*1800*	*7750*	

STANDARDS

Faculty/Professional Staff (Col. C): Office - 120 and Conference - 15 (i.e. total of 135); Addition for Chair's office - 60

Post-Doc./Fellow (Col.E): Shared Office - 80/post-doc. or fellow

Admin. staff (Col. G): -120

Laboratories (Col. L): Full-time worker - 175*; Graduate student - 80

Laboratory Support (Col. M): Wet - 235/full-time worker*; Dry - 20/full-time worker

* as per N.I.H. standards

**includes new research faculty and support staff for proposed strength i.e. 7 faculty and 4 admin. for Dental

APPENDIX

Department	Building	TOTALS (NSF)	Class/ Lecture	Teaching Lab.	Class Lab. Serv.	Research Lab.	Non-Class Lab. Serv.	Storage	Lab. Serv.	Common Instru.	Office	Off. Serv.	Conf. Room	Lounge	Lounge Serv.	Treat.	Anim. Hsg.	Anim. Serv.	Misc.*	ADJUST. TOTAL**
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
EXISTING SPACE																				
DENTAL SCHOOL																				
CLINICS																				
Clinical Affairs	Dental	22747			302			1324			1189	1259		107		14557			4095	
			*Mech. Area,437; Service Lab.,186; Supplies,212; Public Wating, 2592; Locker Room,668																	
Fac. Dent. Prac.	Dental	2478									348	228		96		1285			521	
			*Service Lab.,75; Public Waiting,446																	
Clinic Totals		*25225*	*0*	*0*	*302*	*0*	*0*	*1324*	*0*	*0*	*1537*	*1487*	*0*	*203*	*0*	*15842*	*0*	*0*	*4616*	
INSTRUCTION																				
Instruction	Dental	183												183						
DEPARTMENTS																				
Restorative	Dental	15145	525	9115		338	141	123			2171	209	580	80	136	893			854	
			*Spec. Lab.,304; Spec. Lab. Serv.,270; Locker Room,280																	
Oral Pediatric	Dental	2979		342							391	95	237			1793			121	
			*Service Lab.																	
Oral & Max. S.	Dental	3399	250			167					795	81				1516			590	
			*Locker Room,245; Surgery,345																	
Orthodontics	Dental	5038						348			218	264	1026			2280			902	
			*Conf. Room Serv.,221; Spec. Lab.,365;Locker Room,66; Service Lab.,250																	
Periodontology	Dental	3969		190		277		37			789		336			2340				
Endodontics	Dental	1757									422	152				954			230	
			*Individ. Study Lab.,110; Read./Study Room,120																	
Complete Dent.	Dental	1658		859		141					595	62								
Oral Pathology	Dental	3443		406		1141	209	173			910	85	292						230	
			*Read./Study Room																	
	M & V	305				273					32									
	Total	*3748*	*0*	*406*	*0*	*1414*	*209*	*173*	*0*	*0*	*942*	*85*	*292*	*0*	*0*	*0*	*0*	*0*	*230*	
Gen. Dentistry	Dental	1599				386	78				1087	48								
Dept. Totals		*39292*	*775*	*10912*	*0*	*2723*	*428*	*681*	*0*	*0*	*7410*	*996*	*2451*	*80*	*136*	*9776*	*0*	*0*	*2927*	*3832*
ADMINISTRATION - DENTAL																				
Administration	Dental	14244	5489	372				822			1620	1380	616	1432	67	3929			2446	
			*Study Serv.,482; Other,194; Meeting Room,107; Locker Room,1516; Public Waiting,131; Classroom Service,16																	
Continuing Ed.	Dental	1615	693					52			744	69							58	
			*Classroom Service																	
Admin. Totals		*15859*	*6182*	*372*	*0*	*0*	*0*	*874*	*0*	*0*	*2364*	*1449*	*616*	*1432*	*67*	*3929*	*0*	*0*	*2504*	
SCHOOL TOTAL		80559	6957	11284	302	2723	428	2879	0	0	11311	3932	3087	1898	203	29547	0	0	10047	

**ADJUSTED TOTAL: Research and Support (cols. G,H,I,J,K,R,S) + Offices and Support (cols. L,M,N) for Medical School; Research and Support only for Dental and Veterinary Schools

Department	Building	TOTALS (NSF)	Class/ Lecture	Teaching Lab.	Class Lab. Serv.	Research Lab.	Non-Class Lab. Serv.	Storege	Lab. Serv.	Common Instru.	Office	Off. Serv.	Conf. Room	Lounge	Lounge Serv.	Treat.	Anim. Hsg.	Anim. Serv.	Misc.*	ADJUST. TOTAL**
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
MEDICAL SCHOOL																				
TEACHING																				
Sch. of Med.	Arnold	2133		2133																
	M & V	10177	1335					7193			950			600	99					
Teaching Totals		*12310*	*1335*	*2133*	*0*	*0*	*0*	*7193*	*0*	*0*	*950*	*0*	*0*	*600*	*99*	*0*	*0*	*0*	*0*	*8143*
DEPARTMENTS																				
Anatomy	M & V	13868	270	3610	927	5005	1225			379	2163		289							
	Stearns	4757				3484	208			432	301	167							166	
			*Food Service																	
	Arnold	2224				1638	182				405									
	Totals	*20849*	*270*	*3610*	*927*	*10127*	*1815*	*0*	*0*	*811*	*2869*	*167*	*289*	*0*	*0*	*0*	*0*	*0*	*166*	*15878*
Biochemistry	M & V	10453				7283	855			793	1195	197	131							
	Stearns	4502				2220			615		1059	51	459		32				66	
			*Circulation 55; Conf. Room Service 11																	
	Arnold	4187				2880	258				873								376	
			*Read./Study																	
	Totals	*19142*	*0*	*0*	*0*	*12383*	*1113*	*0*	*615*	*793*	*2927*	*248*	*590*	*0*	*32*	*0*	*0*	*0*	*442*	*18669*
Microbiology	M & V	10177	553			5123	2389				1439		163						509	
			*Read./Study 421; Locker Room 88																	
	Stearns	5040				3698	435		183		516	104							103	
			*Meeting Room																	
	Arnold	4435				2879		190	130		460			97	33					
	S. Cove	2480				1668	250	14			548									
	Totals	*22132*	*553*	*0*	*0*	*13368*	*3074*	*204*	*313*	*0*	*2963*	*104*	*163*	*97*	*33*	*0*	*0*	*0*	*612*	*20189*
Pathology	M & V	13304				7446	1405	233		1096	2550		350	65		158				
	Arnold	193						193												
	S. Cove	8577				3972	919	175		468	644		176						223	
			*Classroom Service																	
	Totals	*20074*	*0*	*0*	*0*	*11418*	*2324*	*601*	*0*	*1564*	*3194*	*0*	*526*	*65*	*0*	*158*	*0*	*0*	*223*	*19627*
Pharmacology	M & V	5706				2738	699	14	6	760	1156		333							
Physiology	M & V	7474				4748	403			268	1475		580							
	Stearns	4232				3220	175			162	490						185			
	Arnold	4206				2713	235			649	609									
	S. Cove	413				118	85				210									
	Totals	*16325*	*0*	*0*	*0*	*10799*	*898*	*0*	*0*	*1079*	*2784*	*0*	*580*	*0*	*0*	*0*	*185*	*0*	*0*	*16325*
Neurology	M & V	855				467	388													
	Arnold	1971																	1971	
			*Alt./Conv. A																	
	S. Cove	6003				1765	472	49		358	2779	260							320	
			*Read./Study																	
	Totals	*8829*	*0*	*0*	*0*	*2232*	*860*	*49*	*0*	*358*	*2779*	*260*	*0*	*0*	*0*	*0*	*0*	*0*	*2291*	*6538*
Anesthesiology	M & V	1510				849	200	129		96	236									
Commun. Hlth.	M & V	173																	173	
			*Alt./Conv. A																	
	Stearns	5281				2023	632	166		440	1390	319	312							

**ADJUSTED TOTAL: Research and Support (cols. G,H,I,J,K,R,S) + Offices and Support (cols. L,M,N) for Medical School; Research end Support only for Dental end Veterinary Schools

Department	Building	TOTALS (NSF)	Class/ Lecture	Teaching Lab.	Class Lab. Serv.	Research Lab.	Non-Class Lab. Serv.	Storage	Leb. Serv.	Common Instru.	Office	Off. Serv.	Conf. Room	Lounge	Lounge Serv.	Treat.	Anim. Hsg.	Anim. Serv.	Misc.*	ADJUST. TOTAL**
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
	Arnold	640									364		276							
	15 Knee.	119										119								
	Total	*6213*	*0*	*0*	*0*	*2023*	*632*	*166*	*0*	*440*	*1754*	*438*	*588*	*0*	*0*	*0*	*0*	*0*	*173*	*6041*
Med. on Campus	M & V	566	566																	
	15 Knee.	9				8					1									
	203 Har	80									80									
	Sackler	655									655									
	Total	*1310*	*566*	*0*	*0*	*8*	*0*	*0*	*0*	*0*	*736*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*744*
Obstet./Gynac.	Stearns	2388				1521	412	9			273		173							*2388*
Opthalmology	S. Cove	2089				1254	430	9		358	360	41								*2452*
Orthop. Surgery	M & V	1164		150		215		28			405		191						175	*839*
			*Circulation Area																	
	Arnold	1496				1009	90			59	337									
	Sackler	709									709									
	Totals	*3369*	*0*	*150*	*0*	*1224*	*90*	*28*	*0*	*59*	*1451*	*0*	*191*	*0*	*0*	*0*	*0*	*0*	*175*	*3043*
Otolaryngology	M & V	889										889								
	S. Cove	517				221														
			*Inactive,105; Surgery,191																	
	Total	*1406*	*0*	*0*	*0*	*221*	*0*	*0*	*0*	*0*	*0*	*889*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1110*
Psychiatry	M & V	2749				1879	394		21		455									*2749*
'Wet' Totals		*134091*	*1389*	*3760*	*927*	*72044*	*12741*	*1209*	*955*	*6318*	*23937*	*2147*	*3433*	*162*	*65*	*158*	*185*	*0*	*4082*	*122969*
'DATA' LABS																				
Geograph. Med.	15 Knee.	1				1														
Med. off Campus	15 Knee.	1				1														
Univ. Prof. Off.	M & V	1042									769	88	184							*1041*
'Data' Totals		*1044*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*769*	*88*	*184*	*0*	*0*	*0*	*0*	*0*	*0*	*1043*
STUDENT SERVICES - MEDICAL																				
Student Serv.	Sackler	700						327			110		263							
Educ. & Stu. Aff	Sackler	1044									1044									
Financial Aid	Sackler	762									762									
St. Serv. Totals		*2506*	*0*	*0*	*0*	*0*	*0*	*327*	*0*	*0*	*1916*	*0*	*263*	*0*	*0*	*0*	*0*	*0*	*0*	

**ADJUSTED TOTAL: Research and Support (cols. G,H,I,J,K,R,S) + Offices and Support (cols. L,M,N) for Medical School; Research and Support only for Dental and Veterinary Schools

Department	Building	TOTALS (NSF)	Class/ Lecture	Teaching Lab.	Class Lab. Serv.	Research Lab.	Non-Class Lab. Serv.	Storage	Lab. Serv.	Common Instru.	Office	Off. Serv.	Conf. Room	Lounge	Lounge Serv.	Treat.	Anim. Hsg.	Anim. Serv.	Misc.*	ADJUST. TOTAL**
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
ADMINISTRATION - MEDICAL																				
Administration	Sackler	3121						23			2085	17	487	530						
	M & V	700												700						
	S. Cove	7						7												
	Total	*3828*	*0*	*0*	*0*	*0*	*0*	*30*	*0*	*0*	*2065*	*17*	*487*	*1230*	*0*	*0*	*0*	*0*	*0*	
Admin. - Med.	Sackler	14183	7574					157			2841		403	3208						
	Stearns	1225	1097					61											67	
			*Audiovisual																	
	Total	*15408*	*8671*	*0*	*0*	*0*	*0*	*218*	*0*	*0*	*2841*	*0*	*403*	*3208*	*0*	*0*	*0*	*0*	*67*	
Admin. - Sack.	Sackler	765									590		111						64	
			*Processing Room																	
	Posner	1731									1394				92				245	
			*Reading/Study,218; Storage Serv.,27																	
	Total	*2496*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1984*	*0*	*111*	*0*	*92*	*0*	*0*	*0*	*309*	
Ed. Plan. & Dev.	Sackler	803									803									
Admissions	Stearns	1191									885		306							
Admin. Totals		*23726*	*8671*	*0*	*0*	*0*	*0*	*248*	*0*	*0*	*8578*	*17*	*1307*	*4438*	*92*	*0*	*0*	*0*	*376*	
SCHOOL TOTAL		*173677*	*11395*	*5893*	*927*	*72046*	*12741*	*8977*	*955*	*6318*	*36150*	*2252*	*5187*	*5200*	*256*	*158*	*185*	*0*	*4458*	

**ADJUSTED TOTAL: Research and Support (cols. G,H,I,J,K,R,S) + Offices and Support (cols. L,M,N) for Medical School; Research end Support only for Dental and Veterinary Schools

Department	Building	TOTALS (NSF)	Class/ Lecture	Teaching Lab.	Class Lab. Serv.	Research Lab.	Non-Class Lab. Serv.	Storage	Lab. Serv.	Common Instru.	Office	Off. Serv.	Conf. Room	Lounge	Lounge Serv.	Treat.	Anim. Hsg.	Anim. Serv.	Misc.*	ADJUST. TOTAL**
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
VETERINARY																				
INSTRUCTION																				
Instruction	Sackler	2810		1909				23											878	
			*Meeting Room																	
Storage	S. Cove	48						48												
Inst. Totals		*2858*	*0*	*1909*	*0*	*0*	*0*	*71*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*878*	
Basic Sciences	S. Cove	48						48												
Anatomy	M & V	5198		2491	992	1066		214		133	262								105	
			*Mechanical Area																	
Microbiology	Dental	156								156										
Surgery	S. Cove	860				784					77									
Comp. Medicine	S. Cove	2114				1473	252	28			361									
Dept. Totals		*8376*	*0*	*2491*	*992*	*3323*	*252*	*290*	*0*	*289*	*700*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*105*	*4154*
STUDENT SERVICES - VETERINARY																				
Student Affairs	203 Har	1234									1202	32								
ADMINISTRATION - VETERINARY																				
Vet. Sch. Admin.	Stearns	1533	1533																	
Special Use	Steerns	1															1			
Admin. Totals		*1534*	*1533*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	
SCHOOL TOTAL		*14002*	*1533*	*4400*	*992*	*3323*	*252*	*361*	*0*	*289*	*1902*	*32*	*0*	*0*	*0*	*0*	*1*	*0*	*983*	
BSOT	S. Cove	10						10												
ENZYME CEN.	Arnold	5770				996	1427	1424			88								2165	
			*Circulation,1202; Mechanical,663																	
CANCER CEN.	S. Cove	2630					2630	1914			190									
	15 Knee.	2				2														
CENTER TOTAL		*2632*	*0*	*0*	*0*	*2*	*2630*	*1914*	*0*	*0*	*190*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
HEALTH SCIENCES LIBRARY																				
Library	Sackler	38627																	33161	
			*Spec. Lab.,207; Read/Study,1943; Open Stack Reading, 21046; Processing,5544; Study Serv.,2109; Audiovis., 2035; Storage Serv.,277																	

**ADJUSTED TOTAL: Research and Support (cols. G,H,I,J,K,R,S) + Offices and Support (cols. L,M,N) for Medical School; Research and Support only for Dental and Veterinary Schools

Department	Building	TOTALS (NSF)	Class/ Lecture	Teaching Lab.	Class Lab. Serv.	Research Lab.	Non-Class Lab. Serv.	Storage	Lab. Serv.	Common Instru.	Office	Off. Serv.	Conf. Room	Lounge	Lounge Serv.	Treat.	Anim. Hsg.	Anim. Serv.	Misc.*	ADJUST. TOTAL**
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
SUPPORT SERVICES																				
PRESIDENT																				
President	193 Har	737									523		214							
DEVELOPMENT																				
Development	193 Har	1865						1865												
Communic.	203 Har	419									419									
Develop. Totals		*2284*	*0*	*0*	*0*	*0*	*0*	*1865*	*0*	*0*	*419*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
PROVOST																				
Provost	193 Har	541									541									
FINANCE																				
Accounting	Posner	4205	602					113			3007	283	200							
	S. Cove	2308	2308																	
Finance Totals		*6513*	*2910*	*0*	*0*	*0*	*0*	*113*	*0*	*0*	*3007*	*283*	*200*	*0*	*0*	*0*	*0*	*0*	*0*	
AUXILIARY SERVICES																				
Mail	Stearns	273																	273	
			*Other																	
Dining Services	Sackler	3238						128											3110	
			*Food Facility,2342; Food Facility Service,768																	
Aux. S. Totals		*3511*	*0*	*0*	*0*	*0*	*0*	*128*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3383*	
PUBLIC SAFETY																				
Security	M & V	843						73			399	66							306	
			*Locker Room																	
Safety	M & V	104						104												
	Stearns	143						143												
	Posner	1040									1040									
	Total	*1287*	*0*	*0*	*0*	*0*	*0*	*247*	*0*	*0*	*1040*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
Pub. S. Totals		*2130*	*0*	*0*	*0*	*0*	*0*	*320*	*0*	*0*	*1439*	*66*	*0*	*0*	*0*	*0*	*0*	*0*	*306*	
MATERIALS MANAGEMENT																				
Mat. Manage.	Posner	573									512	61								
PERSONNEL	Posner	1096									1096									
PHYSICAL PLANT																				
B & G	Dental	2091						95			267			170					1559	
			*Custodial,787,; Lockers,165; Shop,178																	
	M & V	844						278											562	
			*Custodial																	
	Arnold	2853						201											2650	
			*Custodial,137; Lockers,395; Shop,2121																	

**ADJUSTED TOTAL: Research and Support (cols. G,H,I,J,K,R,S) + Offices and Support (cols. L,M,N) for Medical School; Research and Support only for Dental and Veterinary Schools

Department	Building	TOTALS (NSF)	Class/ Lecture	Teaching Lab.	Class Lab. Serv.	Research Lab.	Non-Class Lab. Serv.	Storage	Lab. Serv.	Common Instru.	Office	Off. Serv.	Conf. Room	Lounge	Lounge Serv.	Treat.	Anim. Hsg.	Anim. Serv.	Misc.*	ADJUST. TOTAL**
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
	S. Cove	27																	27	
			*Custodial																	
	Stearns	2146						309			440								1872	
			*Custodial,171; Other,779; Shop,448																	
	203 Har	32																	32	
			*Custodial																	
	Sackler	1037																	1037	
			*Custodial,915; Assembly Serv.,122																	
	Total	*9030*	*0*	*0*	*0*	*0*	*0*	*883*	*0*	*0*	*707*	*0*	*0*	*170*	*0*	*0*	*0*	*0*	*7739*	
Const. Manage.	193 Har	2417									2235	46	137							
	Posner	1225									1225									
	Total	*3642*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3460*	*46*	*137*	*0*	*0*	*0*	*0*	*0*	*0*	
Phys. P. Totals		*12672*	*0*	*0*	*0*	*0*	*0*	*883*	*0*	*0*	*4167*	*46*	*137*	*170*	*0*	*0*	*0*	*0*	*7739*	
SPECIAL USE																				
Stores	Arnold	3314																	3314	
			*MCHDS Facility																	
SUPPORT TOTAL		*33371*	*2910*	*0*	*0*	*0*	*0*	*3309*	*0*	*0*	*11704*	*456*	*551*	*170*	*0*	*0*	*0*	*0*	*###	
TNEMC																				
Animal Hsg.	Stearns	2708															1367	1188	153	
			*Other																	
	Arnold	3103				845											2259			
	Total	*5811*	*0*	*0*	*0*	*845*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*3626*	*1188*	*153*	
Hospital	Stearns	457				209			65		138							45		
Education Media	Sackler	9178	4050		617			246			979	293							2993	
			*Processing,175; Audiovis.,1130; Audiovis. Serv.,374; Assembly Serv.,965; Food Facil.,30; Merchandise Facil.,319																	
	Dental	49																	49	
			*Circulation																	
	Total	*9227*	*4050*	*0*	*617*	*0*	*0*	*246*	*0*	*0*	*979*	*293*	*0*	*0*	*0*	*0*	*0*	*0*	*3042*	
TNEMC TOTAL		*15495*	*4050*	*0*	*617*	*1054*	*0*	*246*	*65*	*0*	*1117*	*293*	*0*	*0*	*0*	*0*	*3626*	*1233*	*3195*	
DORMITORIES, B & G, ETC.																				
Dorm./Offices	Posner	28308	2474		285			1931			1850			2552	73				19142	
			*Circul.,98; Custod.,207; Audiovis., 49; Food Fac. Serv.,616; Recreat., 700; Sleep/Study,14938; Toil./Bath,2310; Sleep/Study Serv.,224																	

**ADJUSTED TOTAL: Research and Support (cols. G,H,I,J,K,R,S) + Offices and Support (cols. L,M,N) for Medical School; Research and Support only for Dental and Veterinary Schools

TUFTS HEALTH SCIENCES INVENTORY; MAY 22,1989

Department	Building	TOTALS (NSF)	Class/ Lecture	Teaching Lab.	Class Lab. Serv.	Research Lab.	Non-Class Lab. Serv.	Storage	Lab. Serv.	Common Instru.	Office	Off. Serv.	Conf. Room	Lounge	Lounge Serv.	Treat.	Anim. Hsg.	Anim. Serv.	Misc.*	ADJUST. TOTAL**
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
GRAND TOTALS		392451	29319	21577	3123	80144	17478	21051	1020	6607	64312	6965	8805	9820	532	29705	3812	1233	87893	
TOTAL GROSS AREA		709695																		
GROSS/NET		1.8																		
Teaching																				
(D+E+F)	14%	54019																		
Research				Labs. (G)		Support	(H+I+J+K)		Support/Labs.											
(G+H+I+J+K)	32%	126300		80144		46156			58%											
Office & Staff																				
(L+M+N+O+P	23%	90434																		
Treatment																				
(Q)	8%	29705																		
Animals - 1%																				
(R+S)	1%	5045																		
Miscellaneous						Housing (Cols. O,P,T of 'Dormitories, B & G, etc.')														
(T)	22%	87893				21767														
CURRENT RENTAL SPACE (Not included in above inventory)																				
		GSF																		
Comm. Health	35 Knee.																			
Med. (Clinical)	35 Knee.																			
Med. (Cancer)	35 Knee.																			
Med. Dean*	35 Knee.																			
	Total	*13055*																		
	*Continuing Education, International Programs																			
Develop. Off.	35 Knee.																			
N. of Med. Educ.	35 Knee.																			
	Total	*3835*																		
Rehab. Med.	75 Knee.	6000																		
Medicine	Shattuck	3760																		
RENTAL TOTALS		*26650*																		
OTHER SPACE (Not included in above inventory)																				
		NSF																		
Drug Develop.	Posner	2400																		

**ADJUSTED TOTAL: Research and Support (cols. G,H,I,J,K,R,S) + Offices and Support (cols. L,M,N) for Medical School; Research and Support only for Dental and Veterinary Schools

4414 41